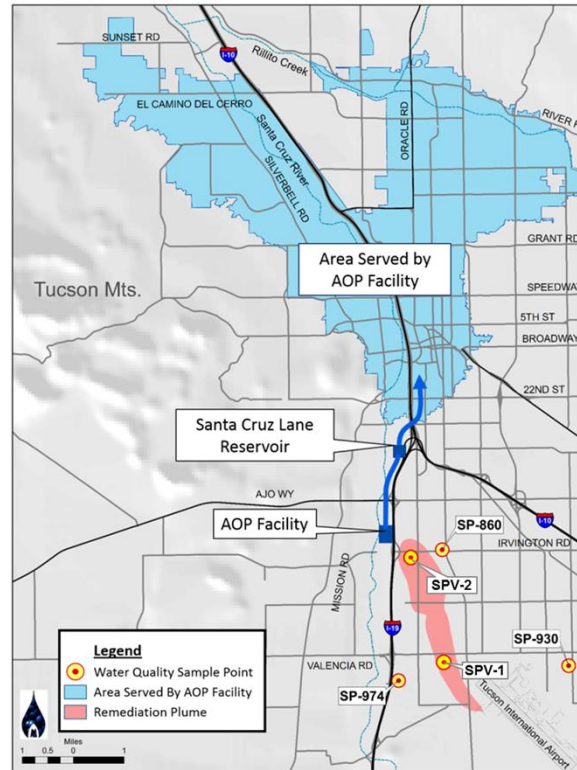




- “ De-sander Units at AOP Plant scheduled to go into operation by early January.
- “ TARP Pipe Study: Pipe harvesting and testing/analysis is currently in progress.
- “ Vapor Intrusion Study: Work plans are expected to be completed by mid-December. Testing at schools will be scheduled after completion of work plans.
- “ Contractor selected to remove and replace carbon at AOP carbon contactors. Work is scheduled to begin December 13, 2018.



Tucson Water provides safe, clean & clear drinking water to all its customers.

Gallons of Water Treated = 165.566 mg
Pounds of TCE Removed = 15 lbs.
Pounds of 1,4 Dioxane Removed = 1.32 lbs.

Community Outreach

11/26: Cronkite News re: WQ Sampling and TARP

11/9: Barrio Viejo Elderly Housing

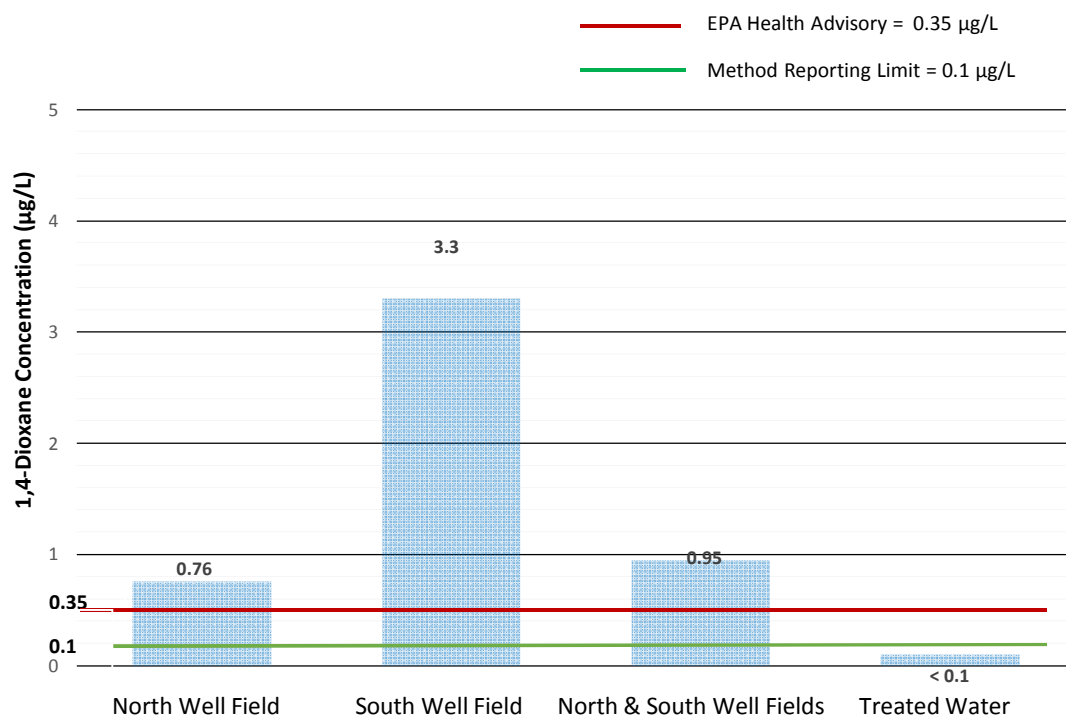
11/27: Azteca TV/Arriba Tucson
Update on TARP Operations

520-791-4331

Water Quality Report

Advanced Oxidation Process (AOP)

Monthly 1,4 Dioxane Results



Distribution System

November, 2018

| Sample Point | 1,4 Dioxane | TCE | PFOA & PFOS |
|--------------|------------------------------|------------------------------|------------------------------|
| SP-860 | Below Method Reporting Limit | Below Method Reporting Limit | Below Method Reporting Limit |
| SP-930 | Below Method Reporting Limit | Below Method Reporting Limit | Below Method Reporting Limit |
| SP-974 | Below Method Reporting Limit | Below Method Reporting Limit | Below Method Reporting Limit |
| SPV-1 | Below Method Reporting Limit | Below Method Reporting Limit | Below Method Reporting Limit |
| SPV-2 | Below Method Reporting Limit | Below Method Reporting Limit | Below Method Reporting Limit |

Method Reporting Limits:

1,4 Dioxane = 0.1 g/L

TCE = 0.5 g/L

PFOA & PFOS = 2 ng/l

Water Quality Report

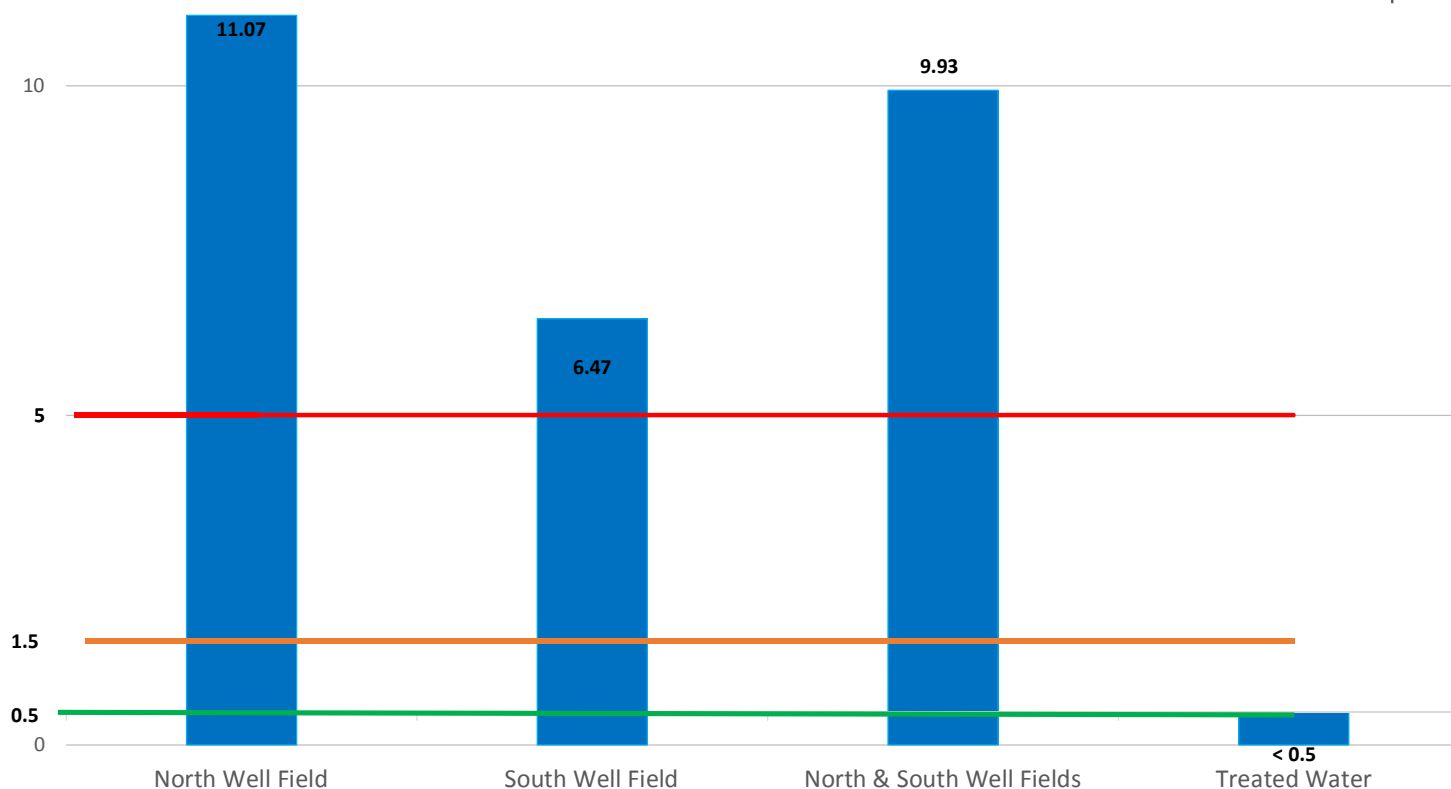
Advanced Oxidation Process (AOP)

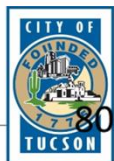
Monthly TCE Results

— EPA Maximum Containment Level = 5 ug/L

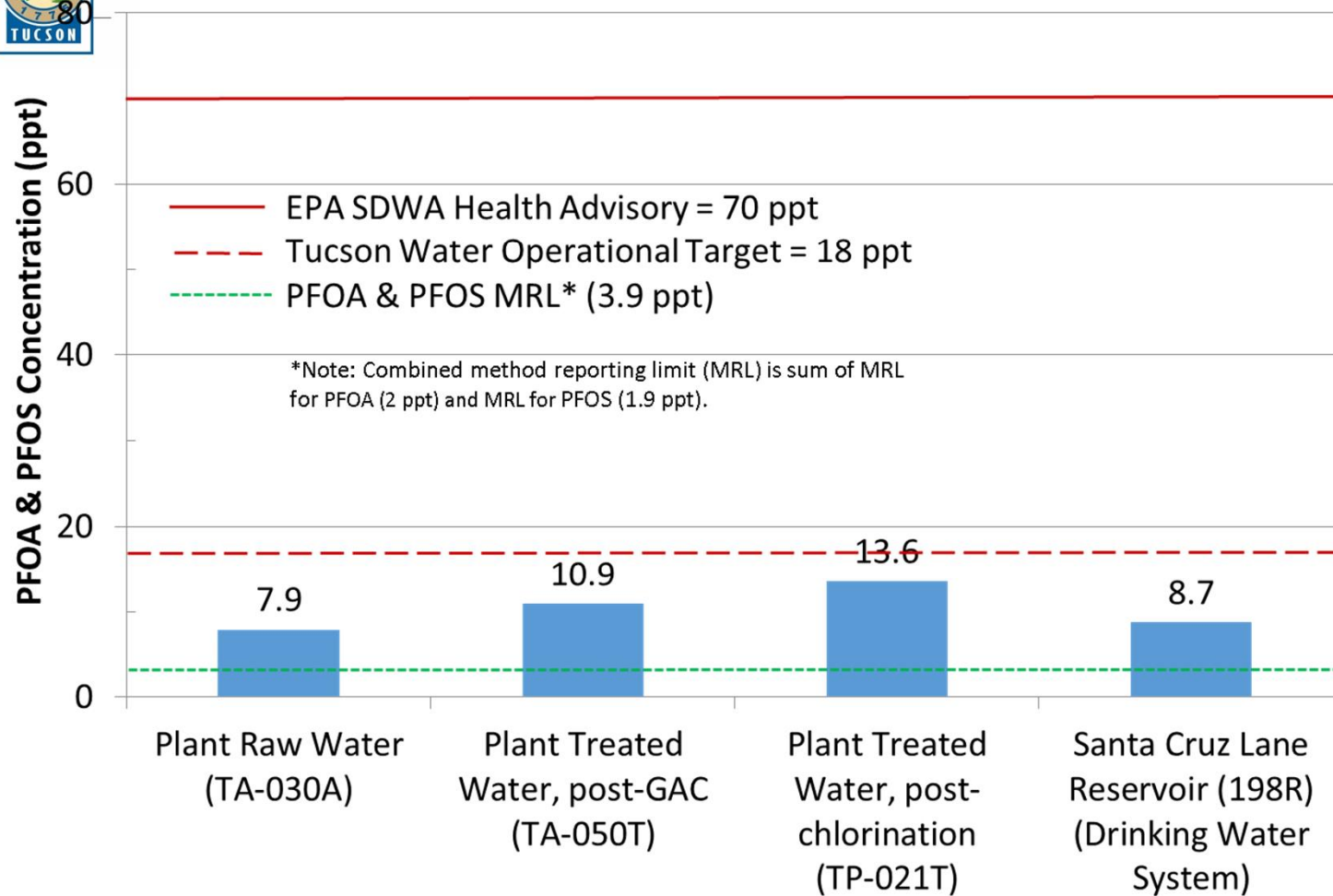
— Consent Decree Limit = 1.5 ug/L

— Method Reporting Limit = 0.5 ug/L



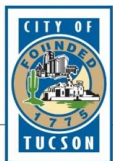


PFOA & PFOS Results (11/21/18)





A proud part of the City of Tucson



Status Report - TARP Activities/Projects

| ACTIVITY | DESCRIPTION | LEAD AGENCY | COMPLETION DATE | % COMPLETE | NOTES |
|----------------|--|--------------|---------------------|------------|--|
| R-127A | Installation of 10 th remediation well to accelerate clean-up. | Tucson Water | 6/2020 | 15% | Also Includes enhancements to pipeline route and treatment plant. |
| AOP De-sanders | Installation of de-sander units. | Tucson Water | 12/2018 | 95% | De-sander units are being installed to remove gravel, sand and silt to protect UV reactors at AOP. |
| Pipe Study | Testing of public/private pipes to determine if leaching from past exposures exists. | Tucson Water | 1/2019 | 50% | Pipes will be tested for both TCE, 1,4-dioxane and PFC's. |
| Vapor Testing | Testing to determine if vapor intrusion exposures exists. | Tucson Water | 1/2019 | 30% | Selected consultant to perform vapor intrusion testing. Right of Entries are being coordinated by City Real Estate. Testing at schools will be scheduled after completion of work plans. |
| PFC Treatment | Install short and long term treatment technologies. | Tucson Water | Short-term: 01/2019 | 25% | Working with consultant and contractor to begin replacing carbon in AOP carbon contactors on December 13, 2018. Work expected to last two months. |

Next UCAB Meeting: January 16, 2019

El Pueblo Senior Center, 101 W. Irvington Rd., 5:45-8:00 p.m.